CHAPTER-8
BANK PERFORMANCE ANALYSIS USING CAMEL

1.Bhadrappa Haralayya
Post Doctoral Fellowship Research Scholar,
Srinivas University, Mangalore, India.
bhadrappabhavimani@gmail.com
Orcid id-0000-0003-3214-7261

2.P. S. Aithal,
Professor, College of Management and Commerce,
Srinivas University, Mangalore, India.
psaithal@gmail.com
Orcid id-0000-0002-4691-8736

ABSTRACT

The soundness of the sector remains the significant marker for the economic development and financial development of the nation. Accordingly, soundness of the saving money sector turns into the base for proficient, profitable and beneficial condition. To improve the level of activities bank keep constant investigate the more fragile segments of the general public. They are detailing fitting techniques to lift these segments in order to get dependability the system and the economy in general. To assess the execution of the keeping money sector in India amid post-deregulation period isn't simple undertaking as there are numerous components, which are required to be mulled over while separating performing and non-performing banks in India. To assess the execution of the saving money sector and give basic investigation the present area utilized the methodology which estimates the execution of the banks by attempted immensely critical pointers like Capital Ampleness, Resources Quality, The executives Proficiency, Procuring Quality and Liquidity. There have been sufficient confirmations in created and creating economies for estimating the execution utilizing CAMEL approach.

Keywords: Capital, Asset, Management, Earning, Liquidity.

8.1 INTRODUCTION

The structure of this methodology has been initially planned to make legitimate examination of the banks. A while later, a few commitments have been made by specialist to gauge the execution of banks utilizing such methodology. The five pointers imply banks'failure when any of these variables

demonstrate insufficient. The decision of the variables in such methodologies depends completely on the judgment of the analysts, as every one of the segments assume fundamental job in the financial articulation of the banks. The examination period in the present investigation ranges from 1994-95 to 2013-14 and the proportion based model including different parameters to decide the CAMEL approach utilized information at total level. The equivalent has been gotten from different measurable tables distributed by RBI over the period of time.

8.2 CAMEL METHODOLOGY

Prior the strategy creators in the saving money part depended on monetary proportions to decide relative performance of banks. The purpose for utilizing these proportions is to gauge the performance of the banks that are of comparable size to control a few highlights of keeping money tasks with certain benchmark The writing recommends utilization of various proportions as far as spread, resource quality, liquidity, edition cost, business per worker, returns on resources, and so forth so as to quantify the performance of managing an account part One of the techniques that have been generally embraced to quantify the performance of banks utilizing the money related bookkeeping proportions is the CAMEL approach. This methodology is a proportion based model to assess performance of the banks in order to offer exceptional point of view in setting with the elements important productivity of banks. The CAMEL approach rates performance of the banks utilizing five key measurements: capital sufficiency (C), asset quality (A), management (M), earning (E), and liquidity (L). Capital sufficiency and liquidity merit significance as administrative imperatives, while income merit significance as a noteworthy target. The benefit quality is a prime pointer of anagement quality and management is behind great and terrible choices that influence other CAMEL viewpoints. There have been sufficient confirmations in created and creating economies for estimating the performance of the saving money division utilizing CAMEL approach To gauge the outcomes, following markers have been utilized in the present arrangement. C=Total Advances/Add up to Resources; A=Non-performing resources/Net advances; M=Total progresses/Add up to stores; E=Interest salary/Add up to pay and L=Government securities/Add up to resources. Nonetheless, add up to propels incorporate the every one of the advances given by banks inside India or outside, non-performing resources incorporate information with respect to the benefits that stayed dicey for over 90 days. Net advances are add up to propels short significant reasoning's. Moreover, add up to stores incorporate sort and request stores; premium salary incorporates enthusiasm from procuring resources and aggregate pay involves pay from both intrigue sources and cockeyed sheet

exercises. At last, government securities incorporate ventures made by banks in securities under supervision of government. To have a comprehensive image of the keeping money division in India utilizing CAMEL approach data have been incorporated at total dimension for open, private and foreign area banks

8.3 CAPITAL ADEQUACY

To stay away from liquidation of the banks and keeping up the conviction of investors in the banks, the capital ampleness proportion ought to be sound. It mirrors the capacity of the banks to address the financial difficulties. This proportion is utilized to make individuals mindful that banks can endure any sort of misfortunes over the time and can ingest the operational misfortune whenever happened. To gauge this, the present examination fuses the proportion of aggregate advances to add up to resources. Further, it has been accepted that higher the proportion higher is the capital soundness of banks.

8.4 ASSET QUALITY

The imperative pointer to pass judgment on quality of the banks is the nature of advantages they are holding. The prime target for estimating this proportion is to find out the capacity of banks to handle out the most concerning issue i.e., non-performing resources. The present commitment utilizes proportion of non-performing resources for net advances proportion (NPA/NA) as the standard proportion of benefit quality. It has been accepted that with decline in the proportion, the execution and by and large soundness of bank increments.

8.5 MANAGEMENT EFFICIENCY

The proportion in this fragment is another vital component of CAMEL show. By including the abstract examination to gauge the execution of banks for mirroring the proficiency and viability of the board, such pointer assumes an essential job. The proportions of aggregate advances to add up to stores (TA/TD) have been utilized to gauge productivity of the executives over the period of time. The proportion estimates the capacity of the bank the board in changing over accessible stores to high gaining advances barring alternate subsidizes like value capital, and so forth.

8.6 EARNING QUALITY

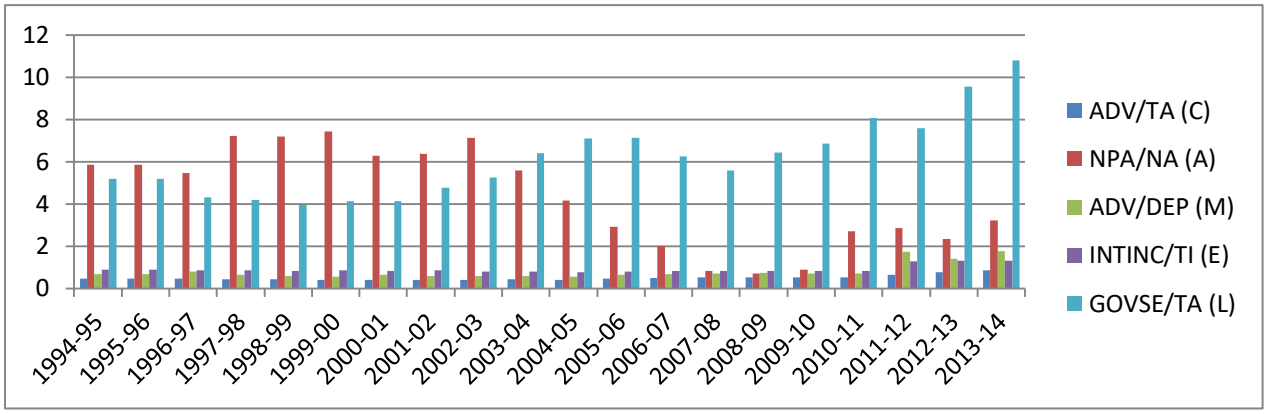
To ensure the continuous and consistent profit, it become pertinent to measure quality of earnings of the banks which reflects sustainability and progress of the banks in present and future period of time. The study incorporates the ratio of interest income to total income (INTINC/TI) as the measure of indicator

for earning quality. It has been further argued that the ratio will explain the quality of income generation.

8.7 LIQUIDITY

To upgrade the execution of banks over the period of time, it winds up relevant to take fitting measures for keeping up liquidity of the banks. It has been seen that the danger of liquidity is the revile for the quality and sound picture of the banks in any economy. Banks dependably attempt to ensure that the ventures ought to be made in the territories which guarantee significant yields, and suited hazard with age of solid profits. In present examination, proportion of government securities to add up to resources (G-Sec/TA) has been utilized to quantify the hazard associated with the advantages. The present examination analyzes supportability of the banks in India utilizing CAMEL show amid the period 1995-2014. The examination from the Table 4.5 uncovered that in the event of capital ampleness, a consistent increment has been seen throughout the years, consequently, portraying the sound financial soundness of the banks. There has been increment in the ADV/TA from 0.460 in 1994-95 to 0.845 amid 2013-14. The outcomes additionally affirm that banks are equipped for confronting the financial difficulties existing in the market. Going to the benefit quality part, the investigation has fused the proportion of non-performing resources for net advances proportion. The proportion of NPAs brief out the example and allotment of assets made accessible to various sections of society.

Figure 8.1 Empirical Analysis Using CAMEL Approach.



The problem of NPAs emerges with the terrible administration and then again ascend in the net advances goes with the critical development and enhancement in the benefit nature of booked business banks in India. Table 4.5 affirms that the proportion of NPA/NA expanded in the underlying period of

the investigation, yet following 1998-99, when the second financial changes have been left, the proportion declined. The decay saw in the proportion particularly after 2003-04 may be a result of more exchanges through RTGS system, progress to an undeniable every day liquidity modification office, market adjustment conspire, and so forth presented by RBI (Vashist, 1987; Kaur, 2012). Further, it has been seen that there is crumbling in the benefits quality as the proportion had made an expansion in the level amid terminal years, along these lines, making a worry for the saving money activities in India. The third proportion guarantees that the bank the executives can make legitimate change of stores to the advances over the period of time, as delineated through the expanding pattern with the entry of different basic changes in the managing an account task in India. The outcomes delights that the banks are fit to be proactive in the dynamic condition and are engaged towards ingenuity and skillful organization. While drawing closer towards the proportion of INTINC/TI, it has been dissected that there has been ups and down experienced by the managing an account sector in India from the previous one and half decades. The proportion at first showeddeclining pattern till 2005-06 however thereafter an upward pattern has been watched. The purpose for such developments may be expected the deregulation of the financing costs by national bank of India which has additionally constrained the banks to decrease their loan fees in order to make sound task in the competitive market after 1990s. In this manner, the outcomes affirms that over theperiod of time saving money sector in India is drawing nearer towards the supportable development and competency to keep up the quality and acquiring reliably. Also, to draw in more clients towards the loan fees have been dissolved by RBI from 2009-10 to defeat the problem looked by keeping money sector after the worldwide financial emergency. Hence, it very well may be reasoned that banks are reliably moving in the direction of building feasible condition for advancement and guarantee pay age over the period of time. In conclusion, the proportion of G-SEC/TA portrays the hazard related with the banks isn't in positive way particularly in quick couple of years, in this way demonstrating the need to outline out the rules and techniques to handle the problem of liquidity chance. Subsequently, saving money sector in India needs to acquire the adequate measure of assets by expanding the level of libalities or by the change of avialble resources at the separate closures with sensible expense. In this manner, it tends to be presumed that SCBs in India are performing admirably on a few markers and in the meantime there is have to search for a few worries that can handle the problems of controlling the banks to work with increasingly productive and compelling way.

The worldwide emergency has drawn fear about the job and the operational execution of the financial sector in various economies of the world. It has raised concern with respect to the pretended by the

financial sector for the economic development of nations. Because of log jam in worldwide economic advancement, the policymakers have gone up against with difficulties that have made specialists to manage financial and fiscal arrangements in a clashing circumstance. It has been closed from the outcomes that Indian saving money sector does not rank high on the general score of financial development file. The rate offer of branches in provincial fragments delineates decay and with the entry of change process, while, increment in the store and credit assembly if there should be an occurrence of banks in metropolitan territories in India has been taken note. Nonetheless, the procedure of deregulation and changed approaches has made the development for private and outside sector banks than the nationalized banks and SBI gathering. Likewise, the part uncovered that the effect of financial emergency regarding the most recent couple of years has made the direction course back to the nationalized banks and SBI gather as far as advances, speculation and stores than private and FSBs. The investigation by Acharya and Kulkarni (2011) affirms this did not occur because of the strength of state claimed banks than the PSBs and FSB yet because of unequivocal and understood government support of open sector banks in India. There has additionally been drop in the level of parts of nationalized bank and SBI bunch amid 2009-10 with a peripheral recuperation in 2010-11. Strikingly, the managing an account sector execution is by all accounts basically influenced by the financial emergency regarding stores, advances and speculations. It has been recommended that there has been critical upgrades in the execution of the Indian keeping money sector after post-change period, in spite of the fact that the level of enhancements fluctuate macross diverse markers. The most critical commitment has been seen if there should arise an occurrence of profits on resources and profits for value over the period of time. It has been mirrored that banks confronting the outcomes of strict standards and controls started by RBI, time to time, are as yet leading their activities profitability. Another pointer found to have critical commitment is C-D proportion. This proportion has appeared after gradual development. The aftereffects of these pointers are authenticated with the investigations of What's more, it has been seen that the proportion of wage bill to add up to costs have declined altogether, accordingly, mirroring the effect of strengthening competitive weights. At long last, it very well may be finished up from the above dialog that saving money sector in India has given blended outcome after the inception of changes set out by RBI and legislature of India. It has been affirmed that managing an account sector in India is developing at a decent pace and in a sound way with exemption to most recent couple of years. It has been, further, uncovered that booked business banks in India have reacted emphatically in the field of profitability, profitability, resources quality, i.e., decrease of NPAs, improving the job of market powers,

standards of prudential controls of bookkeeping, salary acknowledgment, provisioning and presentation, presentation of CAMEL supervisory rating system and nonstop upgradation of innovation to give better and proficient administrations to the clients. In any case, it has been seen that the execution of business banks in India amid 2011-12 was adapted by the log jam in residential economy combined with higher loan costs in condition however Indian banks stayed all around promoted.financial crisis over the last few years has made the trajectory direction back to the nationalized banks and SBI group in terms of advances, investment and deposits than private and FSBs. The study by confirms that this did not happen due to the resilience of state owned banks than the PSBs and FSB but due to explicit and implicit government backing of public sector banks in India. There has also been drop in the percentage of branches of nationalized bank and SBI group during 2009-10 with a marginal recovery in 2010-11. Interestingly, the banking sector performance seems to be virtually affected by the financial crisis in terms of deposits, advances and investments. It has been suggested that there has been significant improvements in the performance of the Indian banking sector after post-reform period, although the degree of improvements vary across different indicators. The most significant contribution has been observed in case of returns on assets and returns on equity over the period of time. It has been reflected that banks facing the consequences of strict norms and regulations initiated by RBI, time to time, are still conducting their operations profitability. Another indicator found to have significant contribution is C-D ratio. This ratio has shown improvements after slow and steady growth. The results of these indicators are corroborated with the studies of Bhatia (1978); Reserve Bank of India In addition to this, it has been observed that the ratio of wage bill to total expenses have declined significantly, thereby, reflecting the impact of intensifying competitive pressures. Finally, it can be concluded from the above discussion that banking sector in India hasprovided mixed result after the initiation of reforms embarked by RBI and government of ndia. It has been confirmed that banking sector in India is growing at a good pace and in a healthy manner with exception to last few years. It has been, further, revealed that scheduled commercial banks in India have responded positively in the field of profitability,productivity, assets quality, i.e., reduction of NPAs, enhancing the role of market forces,norms of prudential regulations of accounting, income recognition, provisioning and exposure, introduction of CAMEL supervisory rating system and continuous upgradation of technology to provide better and efficient services to the customers. However, it has been observed that the performance of commercial banks in India during 2011-12 was conditioned by the slowdown in

domestic economy coupled with higher interest rates in environment though Indian banks remained well capitalized.

8.8 CONCLUSION

The investigation utilized the informational index from the year 1994-95 to 2013-14 in order to distinguish the execution of business banks in India after post-deregulation period. The investigation received bookkeeping CAMEL, efficiency and profitability measurement models to evaluate the outcomes. There is have to investigate the auxiliary issues and the arrangement condition in managing an account part in order to go further in the event of consumer loyalty and clear a path for smooth monetary consideration process in rustic zones of the nation. There is likewise need to stress on the enhancement in administration quality with use of improved innovation. The execution of managing an account segment particularly utilizing the CAMEL approach uncovers that banks have set aside opportunity to get balanced with new administrative condition. The huge enhancement has been seen in private managing an account segment. Along these lines, consolation ought to be given to private division banks in order to build the client base while managing premium corporate high system people. Taking a gander at the general position, advancement and improvement of managing an account part in India, budgetary changes have brought the Indian keeping money framework to worldwide gauges, however there is as yet far to make up for lost time with different economies of the world. Banks must keep on giving careful consideration to store and acknowledge stream as they comprise the center of saving money movement and a generous segment of pay and use is related with them.

REFERENCES

1. BHADRAPPA HARALAYYA , P.S.AITHAL , PERFORMANCE AFFECTING FACTORS OF INDIAN BANKING SECTOR: AN EMPIRICAL ANALYSIS, George Washington International Law Review, Vol.- 07 Issue -01, April-June 2021, PAGE No : 607-621.
2. BHADRAPPA HARALAYYA , P.S.AITHAL , TECHNICAL EFFICIENCY AFFECTING FACTORS IN INDIAN BANKING SECTOR: AN EMPIRICAL ANALYSIS, Turkish Online Journal of Qualitative Inquiry (TOJQI), Vol.- 12 Issue -03, June 2021, PAGE No : 603-620,
3. BHADRAPPA HARALAYYA , P.S.AITHAL , IMPLICATIONS OF BANKING SECTOR ON ECONOMIC DEVELOPMENT IN INDIA, George Washington International Law Review, Vol.- 07 Issue -01, April-June 2021, PAGE No : 631-642
4. BHADRAPPA HARALAYYA , P.S.AITHAL ,STUDY ON PRODUCTIVE EFFICIENCY OF BANKS IN

DEVELOPING COUNTRY, International Research Journal of Humanities and Interdisciplinary Studies (www.irjhis.com) ,Volume: 2, Issue: 5, May 2021, Page No : 184-194.

5. Bhadrappa Haralayya ; P. S. Aithal . "Study on Model and Camel Analysis of Banking" Iconic Research And Engineering Journals ,Volume 4 ,Issue 11 ,May 2021 Page 244-259.
6. Bhadrappa Haralayya and Aithal, P. S.. "Analysis of cost efficiency on scheduled commercial banks in India". International Journal of Current Research, Volume 13, Issue 06, June 2021, pp 17718-17725
7. Bhadrappa Haralayya and P. S. Aithal, "A Study On Structure and Growth of Banking Industry in India", International Journal of Research in Engineering, Science and Management ,Volume 4, Issue 5, May 2021.Page no 225–230.
8. Bhadrappa Haralayya, Retail Banking Trends in India ,International Journal of All Research Education and Scientific Methods (IJARESM), Volume: 9, Issue: 5, Year: May 2021, Page No : 3730-3732.
9. BHADRAPPA HARALAYYA, P.S.AITHAL, FACTORS DETERMINING THE EFFICIENCY IN INDIAN BANKING SECTOR : A TOBIT REGRESSION ANALYSIS", International Journal of Science & Engineering Development Research (www.ijsdr.org), Vol.6, Issue 6, June-2021, page no.1 - 6, ,
10. BHADRAPPA HARALAYYA , P.S.AITHAL , IMPLICATIONS OF BANKING SECTOR ON ECONOMIC DEVELOPMENT IN INDIA, flusserstudies, Volume 30, June 2021,Page No:1068-1080,
11. BHADRAPPA HARALAYYA, P.S.AITHAL, STUDY ON PRODUCTIVE EFFICIENCY OF FINANCIAL INSTITUTIONS, International Journal of Innovative Research in Technology, Volume 8, Issue 1, June-2021 ,Page no: 159 – 164,
12. BHADRAPPA HARALAYYA , STUDY OF BANKING SERVICES PROVIDED BY BANKS IN INDIA, International Research Journal of Humanities and Interdisciplinary Studies (www.irjhis.com), Volume: 2, Issue: 6, Year: June 2021,Page No : 06-12,
13. BHADRAPPA HARALAYYA, P.S.AITHAL , ANALYSIS OF BANK PERFORMANCE USING CAMEL APPROACH", International Journal of Emerging Technologies and Innovative Research (www.jetir.org | UGC and issn Approved), Vol.8, Issue 5, May-2021, page no 305-314,
14. BHADRAPPA HARALAYYA, P.S.AITHAL, ANALYSIS OF BANK PRODUCTIVITY USING PANEL CAUSALITY TEST, Journal of Huazhong University of Science and Technology, Volume 50, Issue 6, June-2021 , Page no: 1 – 16,
15. BHADRAPPA HARALAYYA, P.S.AITHAL, INTER BANK ANALYSIS OF COST EFFICIENCY USING MEAN, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 10, Issue 6, June-2021 ,Page no: 6391-6397,
16. BHADRAPPA HARALAYYA, P.S.AITHAL , ANALYSIS OF TOTAL FACTOR PRODUCTIVITYAND PROFITABILITY MATRIX OF BANKS BY HMTFP AND FPTFP, Science, Technology and Development Journal, Volume 10, Issue 6, June-2021, Page no: 190-203, Available at: http://journalstd.com/gallery/23-

june2021.pdf

17. BHADRAPPA HARALAYYA, P.S.AITHAL , ANALYSIS OF BANKS TOTAL FACTOR PRODUCTIVITY BY AGGREGATE LEVEL, Journal of Xi'an University of Architecture & Technology, Volume 13, Issue 6, June- 2021 ,Page no: 296-314,
18. Bhadrappa Haralayya, P S Aithal, "ANALYSIS OF BANKS TOTAL FACTOR PRODUCTIVITY BY DISAGGREGATE LEVEL", International Journal of Creative Research Thoughts (IJCRT), Volume.9, Issue 6, June 2021, pp.b488-b502,
19. Haralayya B. Importance of CRM in Banking and Financial Sectors Journal of Advanced Research in Quality Control and Management 2021, 6(1): 8-9
20. Haralayya B. How Digital Banking has Brought Innovative Products and Services to India. Journal of Advanced Research in Quality Control and Management 2021; 6(1): 16-18
21. Haralayya B. Top 5 Priorities That will Shape The Future of Retail Banking Industry in India. Journal of Advanced Research in HR and Organizational Management 2021; 8(1&2): 17-18.
22. Haralayya B. Millennials and Mobile-Savvy Consumers are Driving a Huge Shift in The Retail Banking Industry. Journal of Advanced Research in Operational and Marketing Management 2021; 4(1): 17-19
23. Haralayya B. Core Banking Technology and Its Top 6 Implementation Challenges. Journal of Advanced Research in Operational and Marketing Management 2021; 4(1): 25-27
24. Nitesh S Vibhute ; Dr. Chandrakant B. Jewargi ; Dr. Bhadrappa Haralayya . "Study on Non-Performing Assets of Public Sector Banks" Iconic Research And Engineering Journals Volume 4, Issue, 12 June 2021, Page 52-61
25. Haralayya, Dr. Bhadrappa and Saini, Shrawan Kumar, An Overview on Productive Efficiency of Banks & Financial Institution (2018). International Journal of Research, Volume 05 Issue 12, April 2018.
26. Haralayya, Dr. Bhadrappa, Review on the Productive Efficiency of Banks in Developing Country (2018). Journal for Studies in Management and Planning, Volume 04 Issue 05, April 2018,
27. Haralayya, Dr. Bhadrappa, The Productive Efficiency of Banks in Developing Country With Special Reference to Banks & Financial Institution (april 30, 2019).
28. Haralayya, Dr. Bhadrappa, Study on Performance of Foreign Banks in India (APRIL 2, 2016).
29. Haralayya, Dr. Bhadrappa, E-Finance and the Financial Services Industry (MARCH 28, 2014).
30. Haralayya, Dr. Bhadrappa, E-payment - An Overview (MARCH 28, 2014).
31. Bhadrappa Haralayya . "Customer Satisfaction at M/s Sindol Bajaj Bidar" Iconic Research And Engineering Journals, Volume 4 ,Issue 12, June 2021, Page 157-169
32. Bhadrappa Haralayya . "Ratio Analysis at NSSK, Bidar" Iconic Research And Engineering Journals, Volume 4, Issue 12,June 2021, Page 170-182
33. Bhadrappa Haralayya . "Financial Statement Analysis of Shri Ram City Union Finance" Iconic Research And

Engineering Journals, Volume 4, Issue 12,June 2021, Page 183-196

34. Bhadrappa Haralayya . "Employee Job Satisfaction at Big Bazaar" Iconic Research And Engineering Journals, Volume 4, Issue 12, June 2021, Page 197-206
35. Bhadrappa Haralayya . "Effect of Branding on Consumer Buying Behaviour at Vijay Bharat Motors Pvt Ltd, Bidar" Iconic Research And Engineering Journals, Volume 4, Issue 12, June 2021, Page 207-222
36. Bhadrappa Haralayya . "Study on Customer Perceptions Guru Basava Motors, Bidar" Iconic Research And Engineering Journals, Volume 4, Issue 12,June 2021, Page 223-231
37. Bhadrappa Haralayya . "Study on Loans and Advances for DCC Bank Main Branch Nayakaman, Bidar" Iconic Research And Engineering Journals, Volume 4, Issue 12, June 2021, Page 232-242
38. Bhadrappa Haralayya . "Work Life Balance of Employees at Karanja Industries Pvt Ltd, Bidar" Iconic Research And Engineering Journals, Volume 4, Issue 12, June 2021, Page 243-254
39. Bhadrappa Haralayya . "Working Capital Management at TVS Motors, Bidar" Iconic Research And Engineering Journals, Volume 4, Issue 12, June 2021, Page 255-265
40. Haralayya, Dr. Bhadrappa, Testing Weak Form Efficiency of Indian Stock Market – An Empirical Study on NSE (April 30, 2021). Emerging Global Strategies for Indian Industry (ISBN: 978-81-910118-7-6), 2021,
41. Bhadrappa Haralayya . "Advertising Effectiveness With Reference to Big Bazaar" Iconic Research And Engineering Journals, Volume 5, Issue 1, July 2021, Page 101-110
42. Bhadrappa Haralayya . "Analysis of Non Performing Asset on Urban Cooperative Bank in India" Iconic Research And Engineering Journals, Volume 5, Issue 1,July 2021, Page 111-121
43. Bhadrappa Haralayya . "Ration Analysis With Reference to DCC Bank" Iconic Research And Engineering Journals, Volume 5, Issue 1, July 2021, Page 122-130
44. Bhadrappa Haralayya . "Consumer Buying Behavior With Reference to Bajaj Auto Ltd" Iconic Research And Engineering Journals, Volume 5, Issue 1, July 2021, Page 131-140
45. Bhadrappa Haralayya . "Sales Promotion With Reference to Yamaha Motor" Iconic Research And Engineering Journals, Volume 5, Issue 1, July 2021, Page 141-149
46. Bhadrappa Haralayya . "Financial Statement Analysis Using Common Size on Mahindra Sindol Motors" Iconic Research And Engineering Journals, Volume 5, Issue 1, July 2021 , Page 150-159
47. Bhadrappa Haralayya . "Loans And Advances with Reference to PKGB Bank" Iconic Research And Engineering Journals, Volume 5, Issue 1, July 2021, Page 160-170
48. Bhadrappa Haralayya . "Study on Trend Analysis at John Deere" Iconic Research And Engineering Journals, Volume 5, Issue 1, July 2021, Page 171-181
49. Haralayya B, Aithal PS. Study on Cost Efficiency in Indian and Other Countries Experience. Journal of Advanced Research in HR and Organizational Management 2021; 8(1&2): 23-30.
50. Haralayya B, Aithal PS. Study on Theoretical Foundations of Bank Efficiency. . Journal of Advanced

Research in Operational and Marketing Management 2021; 4(2): 12-23.

51. Haralayya B, Aithal PS. Study on Profitability Efficiency in Indian and Other Countries Experience. Journal of Advanced Research in Quality Control and Management 2021; 6(2): 1-10.
52. S. Vinoth, Hari Leela Vemula, Bhadrappa Haralayya, Pradeep Mamgain, Mohammed Faez Hasan, Mohd Naved, Application of cloud computing in banking and e-commerce and related security threats, Materials Today: Proceedings, 2021,ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2021.11.121.(https://www.sciencedirect.com/science/article/pii/S2214785321071285).
53. Haralayya B, Jeelan BV, Vibhute NS. Capital Structure and Factors Affecting Capital Structure. J Adv Res Eco Busi Mgmt 2021; 4(2): 4-35.
54. Vibhute NS, Haralayya B, Jeelan BV. Performance Evaluation of Selected Banks using Ratio Analysis. J Adv Res Eco Busi Mgmt 2021; 4(2): 36-44
55. Jeelan BV, Haralayya B, Vibhute NS. A Study on Empirical Analysis of Relationship between FPI and NIFTY Returns. J Adv Res Acct Fin Mgmt 2021; 3(2): 3-22
56. Jeelan BV, Haralayya B, Vibhute NS. A Study on Performance Evaluation of Initial Public Offering (IPO). J Adv Res Pub Poli Admn 2021; 3(2): 12-26.
57. Basha VJ, Haralayya B, Vibhute NS. Analysis of Segment Reporting with Reference to Selected Software Companies. J Adv Res Entrep Innov SMES Mgmt 2021; 4(2): 9-26.
58. Jeelan BV, Haralayya B, Vibhute NS. Co-Movement and Integration among Stock Markets: A Study of 10 Countries. J Adv Res Acct Fin Mgmt 2021; 3(2): 23-38.
59. Jeelan BV, Haralayya B, Vibhute NS. A Comparative Study on Selected Foreign Currencies. J Adv Res Eco Busi Mgmt 2021; 4(2): 45-5
60. Bhadrappa Haralayya . "A Study on Customer Satisfaction at TVS Vanish Motors Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 117-127
61. Bhadrappa Haralayya . "Consumer Buying Behavior at Kailash Motors Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 128-137
62. Bhadrappa Haralayya . "Credit Risk of Canara Bank Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 138-149
63. Bhadrappa Haralayya . "Effect of Branding on Consumer Buying Behaviour in Bharat Ford Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 150-159
64. Bhadrappa Haralayya . "Employee Engagement at Kharanja Industry Pvt Ltd Humanbad" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 160-170
65. Bhadrappa Haralayya . "Employee Performance Appraisal at Sri Veerabhadreshwar Motors Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 171-183

66. Bhadrappa Haralayya . "Employees Traning and Development at Mgssk Ltd Bhalki" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 184-196
67. Bhadrappa Haralayya . "Impact of Financial Statement Analysis on Financial Performance in Lahoti Motors Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 197-206
68. Bhadrappa Haralayya . "Impact of Ratio Analysis on Financial Performance in Royal Enfield (Bhavani Motors) Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 207-222
69. Bhadrappa Haralayya . "Sales Promotion at Keshva Enterprise Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 223-232
70. Bhadrappa Haralayya . "The Impact of Safety and Health Measures of Employees at KJD Pharma Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 233-242
71. Bhadrappa Haralayya . "Comparative Analysis of Mutual Funds in Geojit Financial Services Ltd Gulbarga" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 243-251
72. Bhadrappa Haralayya . "Cost Analysis at MGSSK Bhalki" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 252-258
73. Bhadrappa Haralayya . "Employee Compensation Management at Vani Organic Pvt Ltd Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 259-266
74. Bhadrappa Haralayya . "Employees Performance Appraisal of Chettinad Cement Gulbarga" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 267-277
75. Bhadrappa Haralayya . "Ratio Analysis in Muthoot Finance Ltd Aurad" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 278-284
76. Bhadrappa Haralayya . "Study on Promotion Mix Strategy Towards Big Bazaar Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 285-291
77. Bhadrappa Haralayya . "Study on Sales Promotion Techniques Used by VKG Bajaj at Kalaburagi" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 292-298
78. Bhadrappa Haralayya . "Working Capital Management in Hyundai Showroom Bidar" Iconic Research And Engineering Journals Volume 5 Issue 9 2022 Page 299-308
79. Bhadrappa Haralayya "Study on Performance Evaluation of Mutual Funds" Iconic Research And Engineering Journals Volume 5 Issue 10 2022 Page 29-36
80. Bhadrappa Haralayya . "The Performance of Mutual Fund Schemes in The Framework of Risk and Return" Iconic Research And Engineering Journals Volume 5 Issue 10 2022 Page 37-44
81. Bhadrappa Haralayya . "Risk And Return Analysis of Mutual Funds with Reference to Banks" Iconic Research And Engineering Journals Volume 5 Issue 10 2022 Page 45-55
82. Bhadrappa Haralayya . "Comparative Study on Performance Evaluation of Mutual Funds with Reference to Banking Funds" Iconic Research And Engineering Journals Volume 5 Issue 10 2022 Page 56-64